

CLAIMS

1-Method to ensure the security of encrypted data transmitted in blocks to an electronic assembly in several steps characterised in that it consists, when
5 said assembly receives a block, in decrypting the block received, processing the information contained in said block and in encrypting the information processed.

2-Method according to claim 1, characterised in that the data processing
10 comprises an extraction step to extract the useful information, only said useful information being encrypted.

3-Method according to claim 2, characterised in that the processing
15 comprises a segmentation step to segment said useful information into segments called useful segments, whose length is compatible with an encryption algorithm used by said object to encrypt said useful segmented information, and possibly one segment called the remaining segment whose length is less than said compatible length, length of said useful information not being a multiple of said compatible length.

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4-Method according to claim 3, characterised in that the processed encrypted information consists of useful segments.

5-Method according to claim 3 or 4, characterised in that the remaining
25 segment is not encrypted and is added to the useful information extracted from the next block received.

6-Method according to one of claims 1 to 5, characterised in that the
30 processing comprises the calculation of padding to be added to the useful information extracted, segmentation then being carried out on all useful information added to the padding.

7-Method according to one of claims 1 to 6, characterised in that the data processing starts by an inversion step to invert the block received.

- 5 8- Device to secure an electronic assembly including data reception means, means to process said received data comprising encryption and decryption means and storage means, characterised in that the reception means transmit data received as blocks to said processing means and in that said processing means decrypt a block received, process the information
10 contained in said block and encrypt the processed information of said block.
- 9- Electronic assembly characterised in that it is equipped with a security device according to claim 8.
- 15 10 - Program including program code instructions to execute the steps of the method according to one of claims 1 to 7 when said program is run in an electronic assembly.